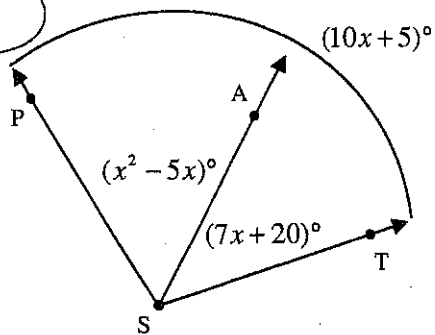


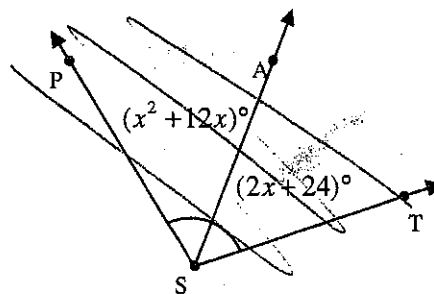
Angles with Advanced Algebra

For questions 1-4, solve for x . Be sure to check for extraneous solutions.

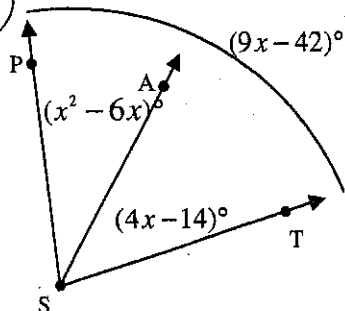
1)



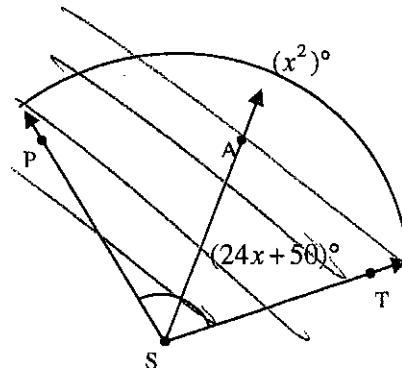
2)



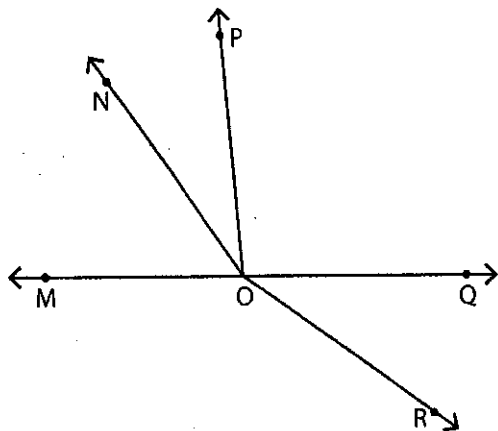
3)



4)

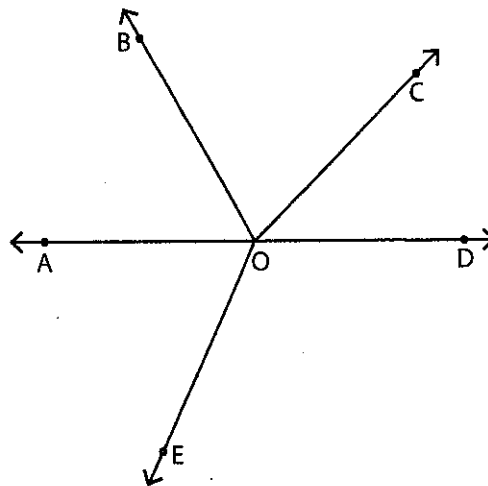


3)



$$\begin{array}{ll} \angle MON = 55^\circ & \angle MOP = \underline{\hspace{2cm}} \\ \angle ROM = 145^\circ & \angle NOP = \underline{\hspace{2cm}} \\ \angle POQ = 95^\circ & \angle QOR = \underline{\hspace{2cm}} \end{array}$$

4)



$$\begin{array}{ll} \angle DOE = 115^\circ & \angle BOD = \underline{\hspace{2cm}} \\ \angle AOB = 60^\circ & \angle EOC = \underline{\hspace{2cm}} \\ \angle BOC = 75^\circ & \angle AOC = \underline{\hspace{2cm}} \end{array}$$

